Calypso

ORDERCODE 43104

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SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!
You have bought a great, innovative product from Showtec.
The Showtec Calypso brings excitement to any venue. Whether you want simple plug-&-play action or a sophisticated DMX show, this product provides the effect you need.

You can rely on Showtec, for more excellent lighting products.
We design and manufacture professional light equipment for the entertainment industry.
New products are being launched regularly. We work hard to keep you, our customer, satisfied.
For more information: iwant@showtec.info

You can get some of the best quality, best priced products on the market from Showtec.
So next time, turn to Showtec for more great lighting equipment.
Always get the best -- with Showtec !

Thank you!

Showtec Calypso™ Product Guide

Warning 3
Safety Instructions 3
Operating Determinations 5
Rigging 5
Return Procedure 6
Claims 6

Description of the device 7
Overview 8

Installation 8

Set Up and Operation 8
Control Modes 9
Single Calypso (music control) 9
Multiple Calypso fixtures (Master/Slave Mode) 10
Multiple Calypso fixtures (DMX control) 13
DMX Channel Summary 14
Dipswitch setting for DMX mode 16
DMX Quick Reference Chart 17
Fixture Linking 18
Data Cabling 18

Connection Cables 19

Maintenance 19
Replacing a Fuse 19

Troubleshooting 19
No Light 19
No Response to DMX 20

Product Specification 21

Warning

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:

- Calypso with fixed 1,40m Schuko cable
- User manual

LED Expected Lifespan

LEDs gradually decline in brightness over time. HEAT is the dominant factor that leads to the acceleration of this decline. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal or singular optimum conditions. For this reason when all color LEDs are used at their fullest intensity, life of the LEDs is significantly reduced. It is estimated that a viable lifespan of 40,000 to 50,000 hours will be achieved under normal operational conditions. If improving on this lifespan expectancy is of a higher priority, place care in providing for lower operational temperatures. This may include climatic-environmental and the reduction of overall projection intensity.

Safety Instructions

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual

**CAUTION! Be careful with your operations.
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires!**

Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never look directly into the light source.
- Never leave any cables lying around.
- Never use the device during thunderstorms, unplug the device immediately.
- Never leave various parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within children's reach, as they are potential sources of danger.
- Do not insert objects into air vents.
- Do not open the device and do not modify the device.
- Do not connect this device to a dimmerpack.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Do not switch the device on and off in short intervals, as this would reduce the system's life.
- Only use device indoor, avoid contact with water or other liquids.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always allow free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power-cord from time to time.
- Make sure that no side forces can impact on the truss system.
- The cable insert or the female part in the device must never be strained. There must always be sufficient cable to the device. Otherwise, the cable may be damaged which may lead to deadly electrical shocks.
- If the external cable is damaged, it has to be replaced by a qualified technician.
- If the lens is obviously damaged, it has to be replaced. So that its functions are not impaired, due to cracks or deep scratches.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. The device must be installed out of the reach of children. Never leave the unit running unattended.
- For replacement use fuses of same type and rating only.
- The user is responsible for correct positioning and operating of the Calypso. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this device.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

CAUTION ! EYEDAMAGES !.
Avoid looking directly into the light source.
(meant especially for epileptics) !

Operating Determinations

- This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.
- The minimum distance between light-output and the illuminated surface must be more than 0,5 meter.
- The maximum ambient temperature t_a = 45°C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 45° C.
- If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.
- Any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.

You endanger your own safety and the safety of others!

Improper installation can cause serious damage to people and property !

Rigging

Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.
Do not attempt the installation yourself !
Always let the installation be carried out by an authorized dealer !

Procedure:

- If the Calypso is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the Calypso, with the mounting-bracket, to the trussing system.
- The Calypso must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety-cable.
- When rigging, derigging or servicing the Calypso, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.

The Calypso can only be mounted in a hanging position (Fig. Above). Mounting the Calypso with a clamp or any other mounting bracket is recommended, depending on the requirements of your application.

Improper installation can cause serious damage to people and property !

Connection with the mains

Connect the device to the mains with the power-plug.
Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	FASE
N	BLUE	BLACK	SILVER	NUL
⏚	YELLOW/GREEN	GREEN	GREEN	EARTH

Make sure that the device is always connected properly to the earth!

⚠ Return Procedure ⚠

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail aftersales@highlite.nl and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:
1) Your name
2) Your address
3) Your phone number
4) A brief description of the symptoms

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any short-comings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.
It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.
Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.
Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.
Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

Description of the device

Features

The Calypso is a light-effect with high output and great effects.

- LED Source: 28x 5 mm RED LED; 28x 5 mm Green LED; 28x 5 mm Blue LED; 28x 5 mm White LED
- Input-voltage: 100-240V Autoswitch
- Peak Power: 82W
- Continuous Power: 135W
- Fuse: T1A/250V 5x20mm
- Strobe Effect: 0-20Hz
- DMX Channels: 4
- DMX Connection: 3 Pole XLR
- Audio Control
- Lightweight and robust
- Exciting Programs
- Long Life Time
- DMX Control
- Attractive design
- Powerful beams
- Dimensions: 455 x 328 x 216 mm
- Weight: 1,94 kg

NOTE: Knowledge of DMX is required to fully utilize this unit.

Fig. 1

Overview

Fig. 2

1) Mountingbracket with adjustment screws for Truss mounting
2) Fixed power cable with Schuko plug
3) Fuse (T1A)
4) DMX signal connector (IN) 3-pin
5) Microphone
6) DMX address DIP switch 1-9
Allows you to set up the fixture's DMX address. The unit is in stand-alone mode when all dipswitches are off.
7) Function DIP switch F1 and F2
F1: master (off)/ slave (on)
F2: synchronous (off) / asynchronous (on) pattern
8) DMX signal connector (SLAVE OUT) 3-pin
9) DMX signal connector (OUT) 3-pin

Installation

Remove all packing materials from the Calypso. Check that all foam and plastic padding is removed. Connect all cables.
Do not supply power before the whole system is set up and connected properly.
Always disconnect from electric mains power supply before cleaning or servicing.
Damages caused by non-observance are not subject to warranty.

Set Up and Operation

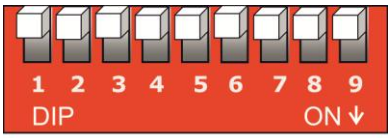
Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

Control Modes

There are 3 control modes:
- Single Calypso stand-alone (triggered by built-in microphone).
- Multiple Calypso fixtures (Master/Slave mode).
- DMX control.

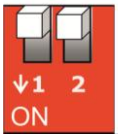
Single Calypso (music control)

1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
2. Make sure the powercable is unplugged.
3. Make sure that DIP switches 1-9 are all set in "OFF" position.



Address = zero (No DMX control).

4. Set DIP switch F1 in OFF position. DIP switch F2 has no function in stand-alone mode.

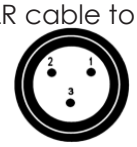


F1: OFF = master
F2: Has no function in stand-alone mode.

5. Plug the powercable in a wall socket.
6. Done!

In stand-alone mode the Calypso will chase through its built-in programs, triggered by the built-in microphone. As there is no music picked up by the built-in microphone, the Calypso will automatically chase through its built-in programs in slow motion.

Multiple Calypso fixtures (Master/Slave Mode)

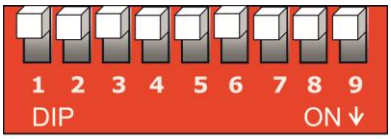
1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
2. Make sure the powercables off all calypso fixtures are unplugged.
3. Use a 3-p XLR cable to connect the Calypso.
   The pins: 

   1. Earth
   2. Signal -
   3. Signal +
4. Link the units as shown in (Fig. 3); connect a DMX signal cable from the first unit's "SLAVE OUT" socket to the second unit's "IN" socket. Connect a DMX signal cable from the second unit's "OUT" socket to the third unit's "IN "socket. Repeat this process to link the third unit, fourth unit etc. You can use the same functions on the master device as described on the former page (Single Calypso (music control). This means on the master device you can set your desired operation Mode and all slave devices will react the same as the master device.

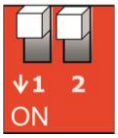
Multiple Calypso fixtures (Master/Slave control)

Fig. 3

5. Set up the master unit. Make sure that address DIP switches 1-9 are all set in OFF position.

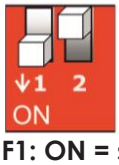


Address = zero (No DMX control).
Use the F1 DIP switch to setup a fixture as master.



F1: OFF = master
F2: Allows you to set up for synchronous or asynchronous pattern.
OFF: Asynchronous (4 light show) pattern.
ON: Synchronous pattern.
More info will be given in step 7.

6. Set up the slave unit.

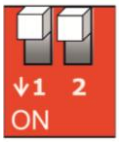


F1: ON = slave
F2: Has no function for slave units.

7. The master fixture can be set up in two modes:
   A. Synchronous pattern
   B. Asynchronous pattern (4 light show)

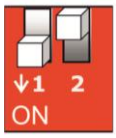
A Synchronous pattern

1) Master unit setup: Set F2 in OFF position. Check that F1 is in OFF position.

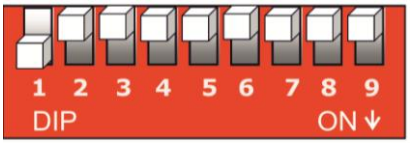


F1: OFF = master.
F2: OFF = synchronous pattern.

2) Slave unit(s) setup: Check that F1 is in ON position.



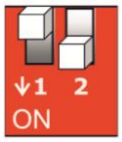
F1: ON =slave
F2: Has no function for slave units.
Set the address DIP switch of each slave at 1.



Address = 1

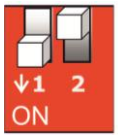
B. Asynchronous pattern (4 light show)

1) Master unit setup: Set F2 in ON position. Check that F1 is in OFF position.

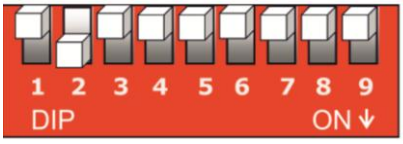


F1: OFF = master.
F2: ON = asynchronous pattern (4 light show).

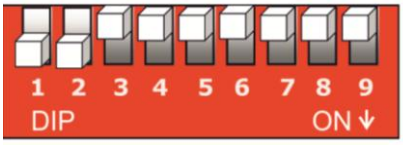
2) Slave unit(s) setup: Make sure F1 is set in ON position.



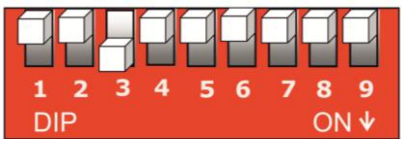
F1: ON =slave
F2: Has no function for slave units.
Set the address DIP switch of the first slave at 2.



Address = 2
Set the address DIP switch of the second slave at 3.

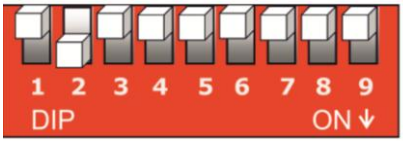


Address = 3
Set the address DIP switch of the third slave at 4.

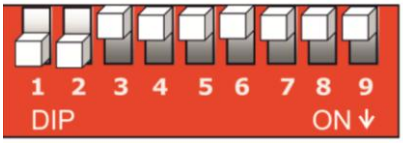


Address = 4

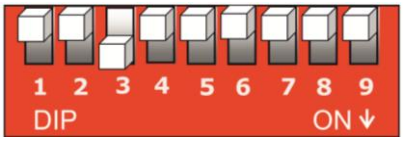
3) If you connect 8 units, make sure, the address off the fourth slave (the fifth unit) is set to1, the next at Address 2 etc.
Set the address DIP switch of the first slave at 2.



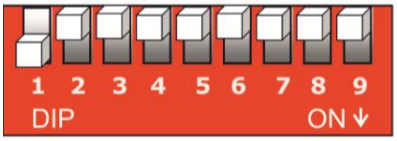
Address = 2
Set the address DIP switch of the second slave at 3.



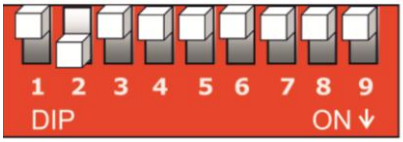
Address = 3
Set the address DIP switch of the third slave at 4.



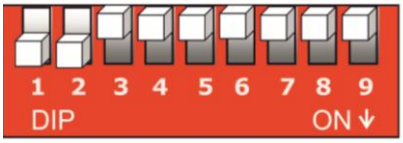
Address = 4
Set the address DIP switch of the fourth slave at 1.



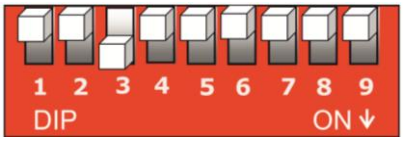
Address = 1
Set the address DIP switch of the fifth slave at 2.



Address = 2
Set the address DIP switch of the sixth slave at 3.



Address = 3
Set the address DIP switch of the seventh slave at 4.

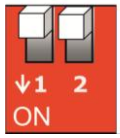


Address = 4

8. Plug in the powercable

Multiple Calypso fixtures (DMX control)

1. Fasten the Calypso fixture(s) onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
2. Make sure that the powercables of all Calypso fixtures are unplugged.
3. Use a 3-p XLR cable to connect the Calypso fixture(s).
4. Link the units as shown in figure 4 on the next page, Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's DMX "in" socket. Repeat this process to link the second, third, and fourth units.
5. Make sure that each unit is set up as master unit.



F1: OFF = master
F2: No function in DMX

6. Give each unit its appropriate address, Make sure that one unit uses 4 DMX channels so each address should advance 4 units. E.g.: 1-5-9-13-17 etc. See "Dipswitch settings for DMX mode" at page 16
7. Supply electric power: Plug the end of the mains power cord into a suitable electric power supply sockets. Do so for all units and the controller. Do not supply power before the whole system is set up and connected properly.

Occupation of the XLR-connection:

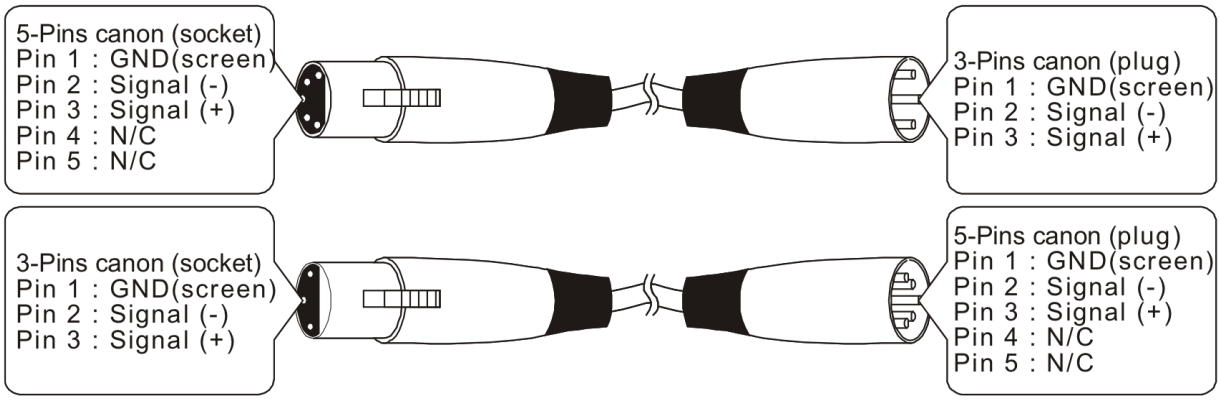
DMX-OUTPUT
XLR mounting-socket:

1 - Ground
2 - Signal (-)
3 - Signal (+)

DMX-input
XLR mounting-plug

1 - Ground
2 - Signal (-)
3 - Signal (+)

The transformation of the controller line of 3 pins and 5 pins (plug and socket)



Multiple Calypso fixtures Pro Set Up

Fig. 4

Note : Link all DMX cables before connecting electric power

Do not supply power before the whole system is set up and connected properly. Design your show according to your DMX controller functions.

Note: It's necessary to insert a XLR termination plug (with 120 Ohm) in the last fixture in order to ensure proper transmission on the DMX data link.

DMX Channel Summary

Channel 1 – Macro Colors / Sound active

0-15	Mix Auto
16-127	Macro Edit
128-139	Sound active Single Show
240-255	Sound active Mix Show 1-15

Channel 2 – Built-in Programs (when CH1 is set between 128-255 ⚠)

0-17	Show 1
18-34	Show 2
35-51	Show 3
52-68	Show 4
69-85	Show 5
86-102	Show 6
103-119	Show 7
120-136	Show 8
137-153	Show 9
154-170	Show 10
171-187	Show 11
188-204	Show 12
205-221	Show 13
222-238	Show 14
239-255	Show 15

Channel 2 – Master-Slave (when CH1 is set between 16-127 ⚠)

0-15	Synchronization
16-90	Slave Light 1
91-165	Slave Light 2
166-239	Slave Light 3
240-255	Slave Light 4

Channel 3 – Blackout-Scenes-Flash-Full On (When Ch1 is set between 16-127 ⚠)

0-7	Blackout
8-241	39 Scenes
242-247	Speedy Flash
248-255	Full Light

Channel 3 – Speed (when CH1 is set between 0-15 ⚠)

0-7	Blackout
8-241	39 Scenes
242-247	Speedy Flash
248-255	Full Light

Channel 4 – Dimmer

0-255	Gradual brightness from 0 to 100%

Mix Auto Mode:
DMX CH2 has no function.
DMX CH3 allows you to adjust the speed.
DMX CH4 acts as dimmer.

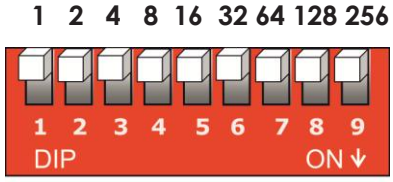
Macro Edit Mode:
DMX CH2 allows you to adjust the Master/Slave settings.
DMX CH3 allows you to select between blackout, 39 scenes, speedy flash or full light.
DMX CH4 acts as a dimmer.

Sound Active Single Show Mode:
DMX CH2 allows you to select show 1-15.
DMX CH3 has no function.
DMX CH4 acts as a dimmer.

Sound Active Mix Show 1-15 Mode:
DMX CH2 allows you to select show 1-15.
DMX CH3 has no function.
DMX CH4 acts as a dimmer

Dipswitch setting for DMX mode

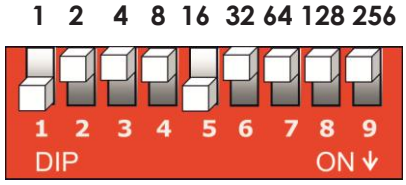
DMX products must have their own "address" to receive DMX signals.
Addresses on the controller are set by flipping the appropriate DMX dip switches #1 - #9.



You need to know that DMX address settings are the sum of the dip switch values.
A standard DMX address for a Showtec Calypso, which has 4 channels is as follows:

Example:

Calypso	**Address Value**	**DMX Dip Switches "ON"**
Unit 5	17	#1 , #5



Switch	Value
#1	1
#5	16 +
	17

Explanation: Since each unit has 4 channels, each address advances 4 values. E.g.: 1 – 5 – 9 – 13 – 17 etc.

Once address values are determined, add DMX dip switch values to obtain the appropriate address (DMX Dip Switches "ON") for each unit. Flip appropriate DMX dip switches on each unit.

Example:

1. If you want to give a Calypso DMX address 133, you first have to find the number 133 in the DMX Chart. (See the next page)
2. Then look at the left side (Dip Switches #1-#5) horizontally from 133.
   In the Table you'll see #1=ON, #2=OFF, #3=ON, #4=OFF, #5=OFF.
3. Finally look at the upper side of the table (Dip Switches #6-#9) vertically from 133.
   In the Table you'll see #6=OFF, #7=OFF, #8=ON, #9=OFF.

DMX Address Quick Reference C

DMX DIP SWITCH SET 0=OFF 1=ON					
#9	0	0	0	0	0	0
#8	0	0	0	0	1	1
#7	0	0	1	1	0	0
#6	0	1	0	1	0	1

#1	#2	#3	#4	#5
0	0	0	0	0
1	0	0	0	0
0	1	0	0	0
1	1	0	0	0
0	0	1	0	0
1	0	1	0	0
0	1	1	0	0

	32	64	96	128	160
1	33	65	97	129	161
2	34	66	98	130	162
3	35	67	99	131	163
4	36	68	100	132	164
5	37	69	101	133	165
6	38	70	102	134	166

DMX Address Quick Reference Chart

Dip Switch Position

DMX DIP SWITCH SET 0=OFF 1=ON																				
					#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
					#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
					#7	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
					#6	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
#1	#2	#3	#4	#5																	
0	0	0	0	0			32	64	96	128	160	192	224	256	288	320	352	384	416	448	480
1	0	0	0	0		1	33	65	97	129	161	193	225	257	289	321	353	385	417	449	481
0	1	0	0	0		2	34	66	98	130	162	194	226	258	290	322	354	386	418	450	482
1	1	0	0	0		3	35	67	99	131	163	195	227	259	291	323	355	387	419	451	483
0	0	1	0	0		4	36	68	100	132	164	196	228	260	292	324	356	388	420	452	484
1	0	1	0	0		5	37	69	101	133	165	197	229	261	293	325	357	389	421	453	485
0	1	1	0	0		6	38	70	102	134	166	198	230	262	294	326	358	390	422	454	486
1	1	1	0	0		7	39	71	103	135	167	199	231	263	295	327	359	391	423	455	487
0	0	0	1	0		8	40	72	104	136	168	200	232	264	296	328	360	392	424	456	488
1	0	0	1	0		9	41	73	105	137	169	201	233	265	297	329	361	393	425	457	489
0	1	0	1	0		10	42	74	106	138	170	202	234	266	298	330	362	394	426	458	490
1	1	0	1	0		11	43	75	107	139	171	203	235	267	299	331	363	395	427	459	491
0	0	1	1	0		12	44	76	108	140	172	204	236	268	300	332	364	396	428	460	492
1	0	1	1	0		13	45	77	109	141	173	205	237	269	301	333	365	397	429	461	493
0	1	1	1	0		14	46	78	110	142	174	206	238	270	302	334	366	398	430	462	494
1	1	1	1	0		15	47	79	111	143	175	207	239	271	303	335	367	399	431	463	495
0	0	0	0	1		16	48	80	112	144	176	208	240	272	304	336	368	400	432	464	496
1	0	0	0	1		17	49	81	113	145	177	209	241	273	305	337	369	401	433	465	497
0	1	0	0	1		18	50	82	114	146	178	210	242	274	306	338	370	402	434	466	498
1	1	0	0	1		19	51	83	115	147	179	211	243	275	307	339	371	403	435	467	499
0	0	1	0	1		20	52	84	116	148	180	212	244	276	308	340	372	404	436	468	500
1	0	1	0	1		21	53	85	117	149	181	213	245	277	309	341	373	405	437	469	501
0	1	1	0	1		22	54	86	118	150	182	214	246	278	310	342	374	406	438	470	502
1	1	1	0	1		23	55	87	119	151	183	215	247	279	311	343	375	407	439	471	503
0	0	0	1	1		24	56	88	120	152	184	216	248	280	312	344	376	408	440	472	504
1	0	0	1	1		25	57	89	121	153	185	217	249	281	313	345	377	409	441	473	505
0	1	0	1	1		26	58	90	122	154	186	218	250	282	314	346	378	410	442	474	506
1	1	0	1	1		27	59	91	123	155	187	219	251	283	315	347	379	411	443	475	507
0	0	1	1	1		28	60	92	124	156	188	220	252	284	316	348	380	412	444	476	508
1	0	1	1	1		29	61	93	125	157	189	221	253	285	317	349	381	413	445	477	509
0	1	1	1	1		30	62	94	126	158	190	222	254	286	318	350	382	414	446	478	510
1	1	1	1	1		31	63	95	127	159	191	223	255	287	319	351	383	415	447	479	511

Dip Switch Position **DMX Address**

Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512 controller or to run synchronized shows on two or more fixtures set to a master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

The Calypso uses a maximum of 4 channels.

Important: Fixtures on a serial data link must be daisy chained in one single line. To comply with the EIA-485 standard no more than 30 devices should be connected on one data link. Connecting more than 30 fixtures on one serial data link without the use of a DMX optically isolated splitter may result in deterioration of the digital DMX signal.

Maximum recommended DMX data link distance: 100 meters
Maximum recommended number of Calypso fixtures on a DMX data link: 30 fixtures

Data Cabling

To link fixtures together you must obtain data cables. You can purchase DAP Audio certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

DAP Audio Certified DMX Data Cables
DAP Audio Digital cable AES-EBU 110ohm bal. XLR/M 3 p. > XLR/F 3 p.
Ordercode: FL09150 (1,5m.), FL093 (3m.), FL096 (6m.), FL0910 (10m.), FL0915 (15m.), FL0920 (20m.).

Connection Cables

Take care of the connector cables, always holding them by the connectors and avoiding knots and twists when coiling them: This gives the advantage of increasing their life and reliability, which is always to your advantage. Periodically check that your cables are in good condition, that they are correctly wired and that all their contacts are perfectly efficient: a great number of problems are caused entirely by using unsuitable or faulty cables.

Maintenance

The Calypso requires almost no maintenance. However, you should keep the unit clean.
Otherwise, the fixture's light-output will be significantly reduced. Disconnect the mains power supply and then wipe the cover with a damp cloth. Wipe the front glass panel clean with glass cleaner and a soft cloth. Do not use alcohol or solvents. The front glass panel will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light-output very quickly. Do not immerse in liquid.
Keep connections clean. Disconnect electric power, and then wipe the DMX connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by an expert after every year in the course of an acceptance test.
The operator has to make sure that safety-relating and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:

1. All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
2. There may not be any deformations on housings, fixations and installation spots.
3. Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
4. The electric power supply cables must not show any damages or material fatigue.

Replacing a Fuse

Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below to do so.

1. Unplug the unit from electric power source.
2. Insert a flat-head screwdriver into a slot in the fuse cover. Turn the screwdriver to the left, at the same time gently push a bit (Turn and Push). The fuse will come out.
3. Remove the used fuse. If brown or unclear, it is burned out.
4. Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details

Troubleshooting

No Light

This troubleshooting guide is meant to help solve simple problems.
If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.
If the light effect does not operate properly, refer servicing to a technician.
Response: Suspect three potential problem areas: the power supply, the LED and the fuse.

1. Power supply. Check that the unit is plugged into an appropriate power supply.
2. The LEDs. Return the Calypso to your Showtec dealer.
3. The fuse. Replace the fuse. See page 19 for replacing the face.
4. If all of the above appears to be O.K., plug the unit in again.
5. If you are unable to determine the cause of the problem, do not open the Calypso, as this may damage the unit and the warranty will become void.
6. Return the device to your Showtec dealer.

No Response to DMX

Response: Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.

1. Check the DMX setting. Make sure that DMX addresses are correct.
2. Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
3. Determine whether the controller or light effect is at fault. Does the controller operate properly with other DMX products? If not, take the controller in for repair. If so, take the DMX cable and the light effect to a qualified technician.

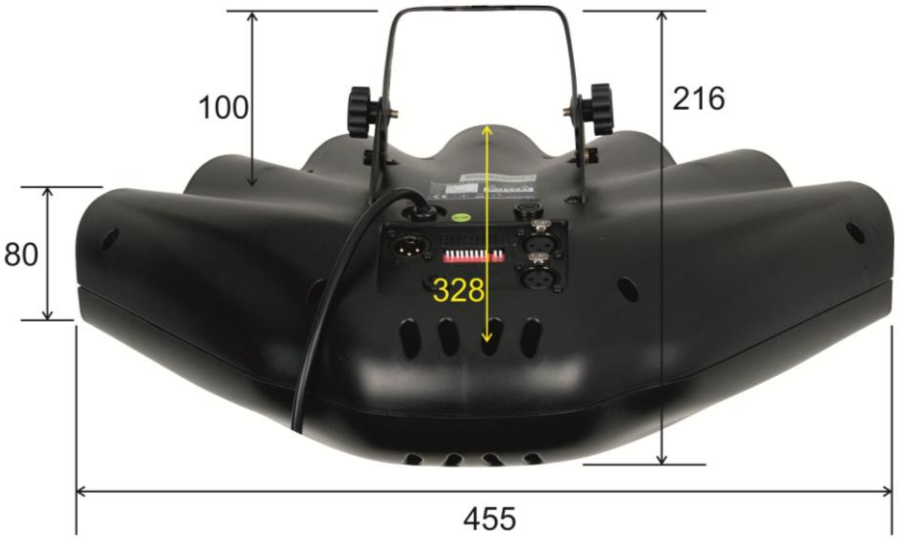
See the table below for more problem solving.

Problem	Probable cause(s)	Remedy
One or more fixtures are completely dead.	No power to the fixture	• Check that power is switched on and cables are plugged in.
Fixtures reset correctly, but all respond erratically or not at all to the controller.	The controller is not connected.	• Connect controller.
	3-pin XLR Out of the controller does not match XLR Out of the first fixture on the link (i.e. signal is reversed).	• Install a phase reversing cable between the controller and the first fixture on the link.
Fixtures reset correctly, but some respond erratically or not at all to the controller.	Poor data quality	• Check data quality. If much lower than 100 percent, the problem may be a bad data link connection, poor quality or broken cables, missing termination plug, or a defective fixture disturbing the link.
	Bad data link connection	• Inspect connections and cables. Correct poor connections. Repair or replace damaged cables.
	Data link not terminated with 120 Ohm termination plug.	• Insert termination plug in output jack of the last fixture on the link.
	Incorrect addressing of the fixtures.	• Check address setting.
	One of the fixtures is defective and disturbs data transmission on the link.	• Bypass one fixture at a time until normal operation is regained: unplug both connectors and connect them directly together. • Have the defective fixture serviced by a qualified technician.
	3-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed).	• Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture, that behaves erratically.
No light	Fixture is too hot.	• Allow fixture to cool. • Clean fan. • Make sure air vents at control panel and front lens are not blocked. • Turn up the air conditioning.
	LEDs damaged	• Disconnect fixture and return to your dealer.
	The power supply settings do not match local AC voltage and frequency.	• Disconnect fixture. Check settings and correct if necessary.

Product Specification

Model: Showtec Calypso

- LED Source: 28x 5 mm RED LED; 28x 5 mm Green LED; 28x 5 mm Blue LED; 28x 5 mm White LED
- Input-voltage: 100-240V Autoswitch
- Peak Power: 82W
- Continuous Power: 135W
- Fuse: T1A/250V 5x20mm
- Strobe Effect: 0-20Hz
- DMX Channels: 4
- DMX Connection: 3 Pole XLR in and out
- Slave Connection: 3 pole XLR
- Audio Control
- Lightweight and robust
- Exciting Programs
- Long Life Time
- DMX Control
- Attractive design
- Powerful beams
- Dimensions: 455 x 328 x 216 mm
- Weight: 1,94 kg



Minimum distance:

Minimum distance from flammable surfaces: 0.5m

Minimum distance to lighted object: 1,3m

Max. ambient temperature t_a: 40°C; Max. housing temperature t_B: 80°C

Design and product specifications are subject to change without prior notice.

CE

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